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APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,064		06/27/2003	Kenya Kobayashi	8013-1156-1	3586
466	7590	06/28/2004		EXAM	INER
YOUNG &		SON REET 2ND FLOOR	ESTRADA, MICHELLE		
ARLINGTO				ART UNIT	PAPER NUMBER
	,			2823	

DATE MAILED: 06/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
		KOBAYASHI, KENYA	
Office Action Summany	10/607,064		
Office Action Summary	Examiner	Art Unit	
	Michelle Estrada	2823	
The MAILING DATE of this communication eriod for Reply	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a r reply within the statutory minimum of thirt iriod will apply and will expire SIX (6) MON atute, cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. SANDONED (35 U.S.C. § 133).	
ratus		·	
1) Responsive to communication(s) filed on _	·		
,	This action is non-final.		
3) Since this application is in condition for allo	owance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
sposition of Claims			
4) Claim(s) 1-17 is/are pending in the application	tion.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3</u> is/are rejected.			
7) Claim(s) <u>4-17</u> is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
pplication Papers			
9) The specification is objected to by the Exan	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b)☐ objected to	by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the co			
11) The oath or declaration is objected to by the	e Examiner. Note the attached	d Office Action or form PTO-152.	
riority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	eign priority under 35 U.S.C. §	3 119(a)-(d) or (f).	
 Certified copies of the priority docum 	nents have been received.		
Certified copies of the priority document			
3. Copies of the certified copies of the	priority documents have been	received in this National Stage	
application from the International Bu			
* See the attached detailed Office action for a	list of the certified copies not	received.	
ttoohmont/o)			
ttachment(s) Notice of References Cited (PTO-892)	4) Interview 9	Summary (PTO-413)	
) ☐ Notice of Praftsperson's Patent Drawing Review (PTO-948	·	s)/Mail Date	

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/27/03,2/12/04.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: in page 8, line 13, it appears that "2D" should be replaced with --2E--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Howaito (JP4003958).

With respect to claim 1, Howaito disclose forming a trench groove in a substrate (1); forming a first electrically insulating layer (2) which fills said trench groove and extends over an upper surface of said substrate, wherein said first electrically insulating layer has a first surface coverage, and an upper surface of said first electrically insulating layer has a first hollow positioned over said trench groove; and forming a second electrically insulating layer (3a) over said first electrically insulating layer, wherein said second electrically insulating layer fills said first hollow, and an upper surface of said second electrically insulating layer has a second hollow positioned over

said trench groove, and said second electrically insulating layer has a second surface coverage smaller than said first surface coverage (See Abstract).

With respect to claim 2, Howaito discloses carrying out a heat treatment to cause a surface reflow of said second electrically insulating layer, whereby said second hollow is reduced in size (See abstract).

With respect to claim 3, Howaito discloses carrying out an etch back to said first and second electrically insulating layers after said heat treatment, whereby said second hollow is reduced in size.

Allowable Subject Matter

Claims 4-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle Estrada whose telephone number is 571-272-1858. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 571-272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 2823

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2800.

MEstrada

June 21, 2004

Olik Chaudhuri Supervisory Patent Examinar Technology Center 2800